

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Sandvik, et al.
Serial No.: Not Yet Assigned
Filed: Herewith
For: GAS SENSOR DEVICE
Art Unit: Not Yet Assigned
Examiner: Not Yet Assigned

Attorney Docket No.: 134166
Customer No.: 27623

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

In accordance with applicant's duty of disclosure under 37 C.F.R. §1.56, please find attached hereto form PTO-1449 listing information which may be material to the patentability of this application, filed concurrently herewith. This Information Disclosure Statement is being filed:

- ☒ Within three (3) months of the filing date of the national application;
- ☐ Within three (3) months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application;
- ☐ Before the mailing date of a first Office Action on the merits;
- ☐ After the filing date or date of first Office Action, but before the mailing date of a final action under 37 C.F.R. §1.113, provided that this occurs prior to the issuance of a Notice of Allowance and provided that this I.D.S. is accompanied by either a certification as specified in 37 C.F.R. §1.97(e) or the fee set forth in 37 C.F.R. §1.17(p);
- ☐ After the filing date or date of first Office Action, but before the mailing date of a Notice of Allowance under 37 C.F.R. §1.311, provided that this occurs prior to the final action and provided that this I.D.S. is accompanied by either a certification as specified in 37 C.F.R. §1.97(e) or the fee set forth in 37 C.F.R. §1.17(p);
- ☐ After the mailing date of a final action under 37 C.F.R. §1.113, provided that this occurs prior to the issuance of a Notice of Allowance and provided that this I.D.S. is accompanied by a certification as specified in 37 C.F.R. §1.97(e) and the fee set forth in 37 C.F.R. §1.17(p); and

_____ After the mailing date of a Notice of Allowance under 37 C.F.R. §1.311, provided that this occurs prior to or subsequent to the payment of the Issue Fee and provided that this I.D.S. is accompanied by a certification as specified in 37 C.F.R. §1.97(e) and the fee set forth in 37 C.F.R. §1.17(p).

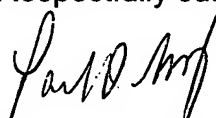
_____ Filing with RCE Under 37 CFR 1.114.

Cited in the attached PTO-1449 are U.S. Patent Nos. 5,417,821, 5,591,321, 6,041,643, 6,109,094, 6,155,100, 6,182,500, 6,202,473, 6,278,133, 6,291,838, 6,298,710, 6,378,355, 6,418,784 and 6,474,139. Pursuant to the waiving of the requirement of 37 CFR 1.98 (a)(2)(i), copies of these U.S. references are not enclosed.

A copy of foreign patents EP 0737859, DE 10031549; DE 10032062 and DE 19960798 as well as available English abstracts of the aforementioned patents are enclosed herewith. Articles entitled "A Pt/Ga₂O₃-ZnO/SiC Schottsky Diode-Based Hydrocarbon Gas Sensor" and "Interface States in High-Temperature Gas Sensors Based on Silicon Carbide" are enclosed herewith.

It should be understood that attention has been called to the references that have been deemed to be pertinent to the claimed present invention. In concluding what was pertinent, the criteria employed was considered most appropriate in light of the invention shown in the present application. However, the Examiner or others may deem some other criteria to be just as appropriate or more appropriate. Therefore, the Examiner is respectfully urged to review the listed references and to make the usual careful independent search for other prior art that may be pertinent.

Respectfully submitted,



November 12, 2003

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FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Docket Number (Optional) 134166		Application Number Not Yet Assigned
	Applicant Sandvick, et al.		
	Filing Date Herewith	Group Art Unit Not Yet Assigned	

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,417,821	05/23/1995	Pyke			
	5,591,321	01/07/1997	Pyke			
	6,041,643	03/28/2000	Stokes, et al.			
	6,109,094	08/29/2000	Baranzahi, et al.			
	6,155,100	12/05/2000	Stokes, et al.			
	6,182,500	02/06/2001	Stokes, et al.			
	6,202,473	03/20/2001	Stokes, et al.			
	6,278,133	08/21/2001	Harris, et al.			
	6,291,838	09/18/2001	Hunter			
	6,298,710	10/09/2001	Samman, et al.			
	6,378,355	04/30/2002	Samman, et al.			
	6,418,784	07/16/2002	Samman, et al.			
	6,474,139	11/05/2002	Samman, et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	EP 0737859	24.10.2001	Europe				
	DE 10031549	17.01.2002	Germany				
	DE 10032062	24.01.2002	Germany				
	DE 19960798	26.07.2001	Germany				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	A. Trinchi, et al.; "A Pt/Ga ₂ O ₃ -ZnO/SiC Schottsky Diode-Based Hydrocarbon Gas Sensor" IEEE Sensors Journal, Vol 3. No. 5 October 2003; p. 548-553
	P. Tobias, et al.; "Interface States in High-Temperature Gas Sensors Based on Silicon Carbide" IEEE Sensors Journal, Vol 2. No. 5 October 2003; p. 543-547

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.